

**TBPOC CONFERENCE CALL
September 18, 2009, 4:00 pm – 5:00 pm**

Topic		Presenter	Time	Desired Outcome
1. DUMBARTON/ ANTIOCH BRIDGES a. Cost Update*		M. Pazooki, CT/ J. Weinstein, BATA	35 min	Approval
2. YERBA BUENA ISLAND DETOUR a. Contract Change Order 217 (Skid Bent Demolition and Backfill)*		D. Noel, CTC	5 min	Approval
3. SELF-ANCHORED SUSPENSION SUPERSTRUCTURE a. TBPOC China/ Canada Visit Update		PMT	20 min	Information
Next TBPOC Meeting: October 16, 2009, 9:00 AM – 12:00 PM Casa de la Vista, Treasure Island, San Francisco				

*Attachments

TO: Toll Bridge Program Oversight Committee (TBPOC) **DATE:** September 16, 2009

FR: Mo Pazooki, Project Manager, Caltrans
Jason Weinstein, Senior Program Coordinator, BATA

RE: Agenda No. - 1a
Item- Dumbarton/ Antioch Bridges
Cost Update/ Schedule

Recommendation:

APPROVAL

Cost:

\$700M to \$750M

Schedule Impacts:

N/A

Discussion:

Staff requests TBPOC approval of the funding target value of \$700M to \$750M to complete both the Dumbarton and Antioch seismic retrofit projects.

At the TBPOC meeting on July 15, 2009, a status update was given on the Dumbarton and Antioch bridge seismic retrofit projects, with particular emphasis on schedule and environmental permits. Since this meeting, Earthquake Protection Systems Inc. (EPS) has completed 4 of the 6 prototype bearings (2 - Type I and 2 - Type II prototype bearings for the Antioch Bridge). In addition, they have completed the initial testing on these bearings at EPS's facilities and have shipped these 4 bearings to UC San Diego for independent testing. The information obtained from the testing will be used in the development of bearings for the construction projects at each bridge. The production and testing of all 6 prototype bearings is on schedule to be complete in April 2010.

Progress has also been made on legislation since the July 2009 update. AB 1175, introduced by Assembly Member Torlakson, provides for the addition of seismic safety improvement projects on the Dumbarton and Antioch Bridges to the TBSRP. This bill has been enrolled, passing the Senate on September 3, 2009 and the Assembly on September 9, 2009. The bill is awaiting action by the Governor. If signed by the Governor, or no action is taken by October 11, 2009, this bill will be come law effective January 1, 2010.

Design/ Environmental Permitting Progress

The Department design teams have made progress since the July 15, 2009 update. Below is an update on each bridge:

Dumbarton

- PS&E was sent to Headquarters on August 3, 2009.
- A Biological Assessment for fish and mammals was submitted to NOAA's National Marine Fisheries Service (NOAA Fisheries Service) on January 5, 2009 and was approved on August 10, 2009.
- An Incidental Harassment Authorization (IHA) was completed for the mammals only and submitted to NOAA's National Marine Fisheries Service (NOAA Fisheries Service) March 30, 2009, and it is anticipated to be approved by February 1, 2010.
- A Biological Assessment for fish and birds was given to US Fish and Wildlife services on January 5, 2009 and was approved on August 14, 2009.
- The Environmental Document was approved on September 2, 2009.
- The application for the ACOE Nationwide permit for the barrier was submitted on April 29, 2009 and the permit is anticipated to be signed by September 30, 2009.
- The application for the ACOE Nationwide permit for the bridge seismic retrofit was submitted on April 29, 2009 and the permit is anticipated to be signed by October 15, 2009.
- The application for the RWQCB permit was submitted on May 29, 2009 and the permit is anticipated to be signed by October 15, 2009.
- The application for the Material Amendment No 13 to BCDC permit was submitted on April 29, 2009 and the Full Commission approved the permit on September 3, 2009.
- A public hearing with the full BCDC board was held on September 3, 2009. The BCDC board voted to approve the project 17 – 0.

Antioch

- PS&E was sent to Headquarters on August 3, 2009.
- A Biological Assessment for fish was submitted to NOAA's National Marine Fisheries Service (NOAA Fisheries Service) on January 13, 2009 and was approved on June 23, 2009.

- A Biological Assessment for fish, birds, and giant garter snakes, was given to US Fish and Wildlife services on January 13, 2009 and was approved on July 2, 2009.
- An Incidental harassment Authorization (IHA) was completed for the mammals only and submitted to NOAA's National Marine Fisheries Service (NOAA Fisheries Service) March 30, 2009 and it is anticipated to be approved by February 1, 2010.
- The Environmental Document was approved on September 2, 2009.
- The application for the ACOE Nationwide permit for the bridge seismic retrofit was submitted on May 1, 2009 and the permit was signed on August 20, 2009.
- The application for the RWQCB permit was submitted on May 1, 2009 and the permit is anticipated to be signed by October 15, 2009.
- The application for the CDFG (Incidental Take) permit was submitted on June 6, 2009 and the permit is anticipated to be signed by November 1, 2009.
- The application for the CDFG (1602) permit was submitted on June 26, 2009 and the permit is anticipated to be signed by November 1, 2009.

In July, there was concern that the Biological Opinions would hold up permits from the California Department of Fish and Game, Regional Water Quality Control Board, Army Corps of Engineers, and Bay Conservation Development Commission. As a result, the Department had slipped the Ready-to-List through award dates by over 3 months. However, now it appears that environmental permitting is back on track and it is possible to meet the baseline project delivery schedule milestone dates.

Updated Cost Estimates

In November 2008, the TBPOC was briefed on the retrofit strategies and costs developed for the Dumbarton and Antioch Bridges. Subsequently this information was presented at the December 17, 2008 BATA meeting where the schedule and \$950M combined project costs were discussed.

Updated cost estimates were presented to the PMT on September 14, 2009. There was debate over the cost estimates and whether or not they reflected all the current risk associated with each project. The PMT felt that a slightly higher total of \$750M might be more appropriate.

Below is a table that compares the cost data presented in December 2008 with the current project costs:

	December 2008			September 2009		
Description	Antioch (\$ Millions)	Dumbarton (\$ Millions)	% of Total	Antioch (\$ Millions)	Dumbarton (\$ Millions)	% of Total
Construction cost (escalation to mid-year of construction)	\$125	\$267	41%	\$98	\$195	48%
Contingencies	44	94	15%	45	65	14%
Subtotal capital costs	169	361		143	260	
Support costs	39	95	14%	39	95	17%
Mitigation costs	13	7	2%	13	10	3%
Risk costs	92	174	28%	55	85	18%
TOTAL COST ESTIMATE	\$313	\$637		\$250	\$450	
	\$950			\$700		

Reduction in required project scope and risks has reduced the revised cost estimate.

Reduced Project Scope:

Antioch:

- Elimination of cross bracing for superstructure
- Modifications to cross bracing between pier columns
- Simplification of retrofit at hinges
- Length of temporary access trestle reduced

Dumbarton:

- Elimination of concrete confinement collars
- Reduction of retrofit required for superstructure
- Minimization of reconstruction of joints

Reduced Project Risks:

- Currently at 100% design (December 2008 estimate was based on 35% design)
- Underwater work essentially eliminated
- Added certainty for fabrication of isolation bearings
- Added certainty in regards to environmental permitting
- Better market conditions for bidding

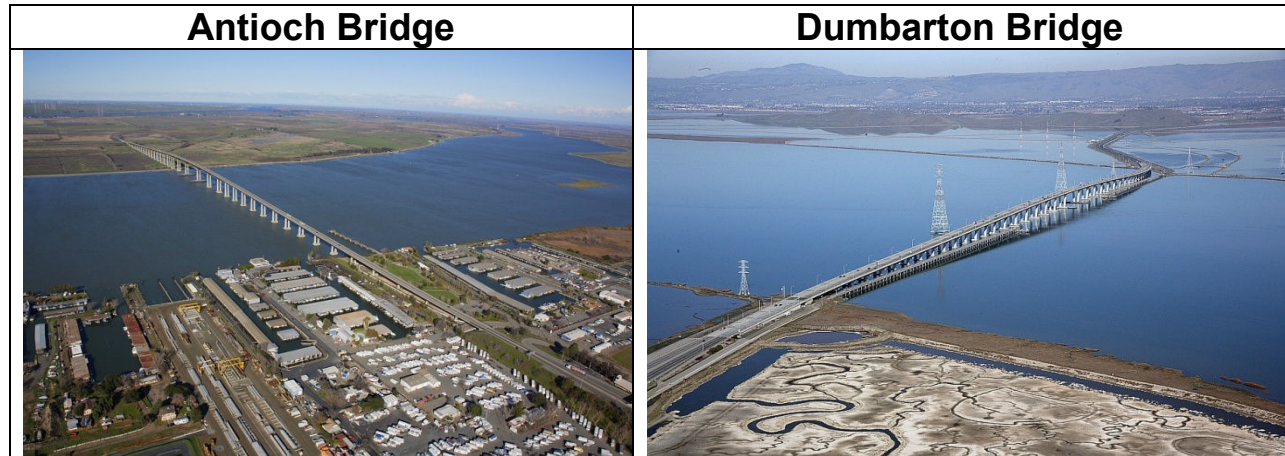
Next Steps include updating the BATA Oversight Committee on October 14, 2009.

Memorandum

Attachment(s):

1. Antioch / Dumbarton Delivery Schedule (9/09)
2. Antioch Summary Schedule (9/09)
3. Dumbarton Summary Schedule (9/09)

Antioch/Dumbarton Delivery Schedule (9/14/09)



Description	Antioch Plan		Dumbarton Plan	
	<u>Current</u>	<u>Contract for Delivery</u>	<u>Current</u>	<u>Contract for Delivery</u>
PA & ED	01Jul09	15Aug09	01Jul09	15Aug09
Draft Structural PS&E	01Jun09A	01Jun09A	01Jun09A	01Jun09A
Final Structural PS&E	02Jul09A	02Jul09A	02Jul09A	02Jul09A
PS&E to HQOE	03Aug09A	03Aug09A	03Aug09A	03Aug09A
Ready to List (RTL)	20Nov09	01Mar10	20Nov09	01Mar10
Advertise	14Dec09	31Mar10	14Dec09	31Mar10
Bid Opening	10Mar10	30Jun10	10Mar10	30Jun10
Award	14Apr10	05Aug10	14Apr10	05Aug10

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Antioch Environmental Work Window – August to October

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Dumbarton Environmental Work Window – June 15 - November

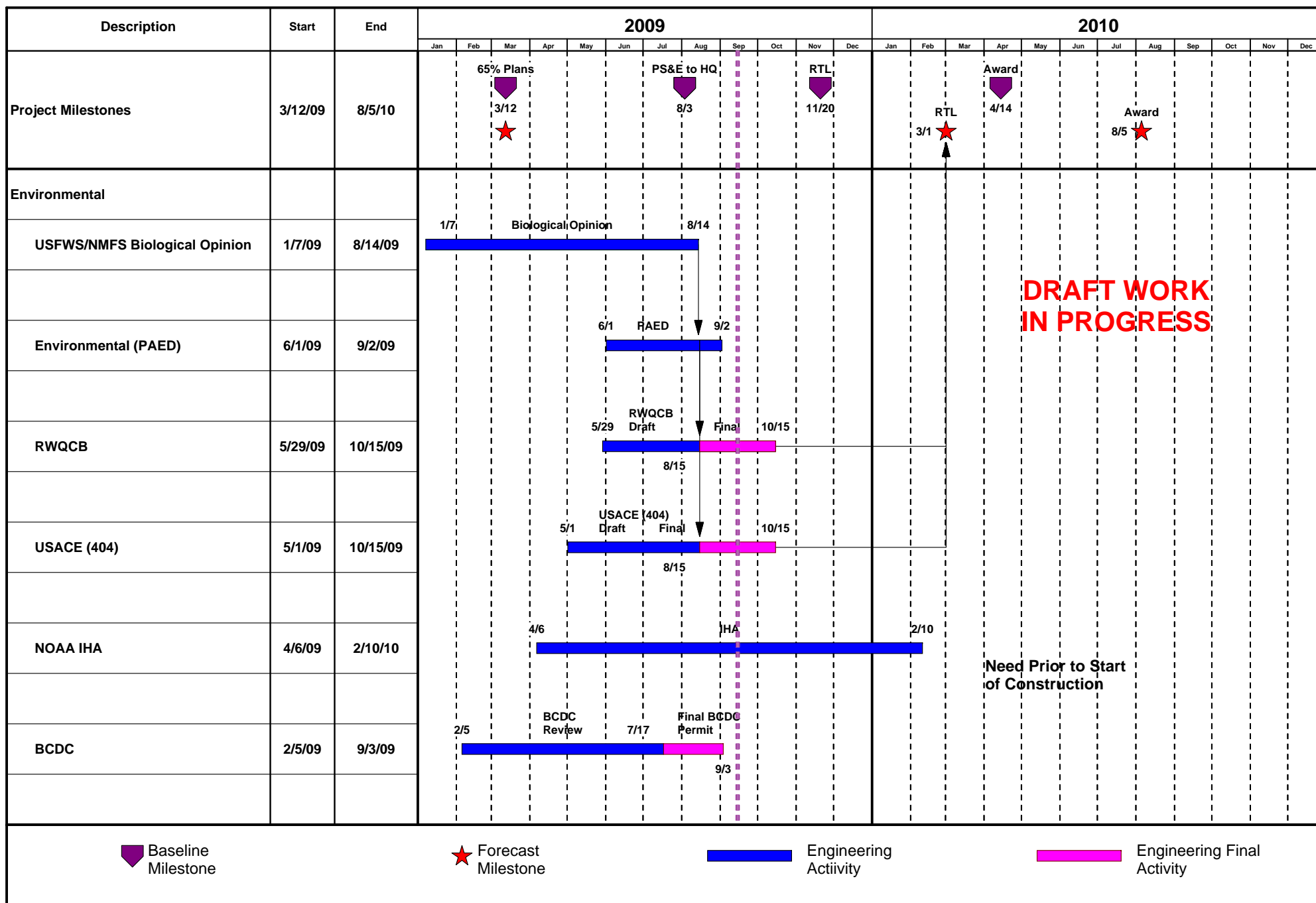
9/14/09

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Dumbarton Seismic Safety Project

Summary Schedule as of September 14, 2009

9/14/09



Memorandum

TO: Toll Bridge Program Oversight Committee (TBPOC) **DATE:** September 17, 2009

FR: Dina Noel, Assistant Deputy Director, Toll Bridge Program, CTC

RE: Agenda No. - Item 2a
Item- Yerba Buena Island Detour Contract Change Order 217

Recommendation:
APPROVAL

Cost:
\$4,500,000.00 - not to exceed

Schedule Impacts:
None

Discussion:

Contract Change Order 217 in the amount of \$4,500,000 provides for the removal and disposal of the East Tie-In skid bent system used during the roll out of the existing truss and the roll in of the new East Tie-In truss. The work consists of removing and disposing over 3,000 metric tons of structural steel for the skid bent system and over 1,600 cubic meters of reinforced concrete for the foundations of both the skid bent and the lowering systems that will be used to remove the YB4 span of the roll out truss.

This change order defers the salvage value associated with the structural steel being removed. The actual salvage value received for the steel shall be credited to the Department through a supplemental change order. Based on the current market value for scrap steel, this deferred credit is estimated to exceed \$500,000.

Attachment(s):

1. Draft CCO 217
2. Draft CCO 217 Memorandum
3. Yerba Buena Island Detour Contract Change Order Implementation Strategy

CONTRACT CHANGE ORDER

Change Requested by: Engineer

CCO 217	Suppl. No. 0	Contract No. 04 - 0120R4	Road SF-80-12.6/13.2	FED. AID LOC.: ACBRIM-080-1(097)N
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To: CC MYERS INC

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order is not effective until approved by the Engineer.**

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.) Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time. This last percentage shown is the net accumulated increase or decrease from the original quantity in the Engineer's Estimate.

Extra Work at Lump Sum:

Perform all work as specified within this change order pertaining to the demolition and removal of the skid bent and beam of the East Tie-In portion of the Temporary Bypass Structure (Bridge No. 34-0006 (TEMP)).

Compensation paid under this change order includes but is not limited to all costs associated with the following 4 items of work:

- 1) Performing all bridge removal work associated with the demolition and disposal of the skid bent system, including all skid bents, beams, walkways and appurtenances of the East Tie-In. This work includes the demolition and disposal of Skid Beam Segment A1 and Segment B1 after being lowered with the Span YB4 truss and the demolition and disposal of Bent 1 and Bent 2 towers of both Skid Bent A and Skid Bent B after they are transported to allow for the lowering of the Span YB4 truss.
- 2) Performing all bridge removal work associated with the demolition and disposal of the 8 structural steel supports installed between the bottom chord and the skid beam for both the YB4 and ETI trusses that were installed under Change Order No. 171.
- 3) Performing all bridge removal work associated with the demolition and disposal of all concrete foundations associated with the skid bent system and all concrete foundations constructed under Change Order No. 177 pertaining to the lowering of the Span YB4 truss and the falsework that supports the Span YB4 truss after it has been lowered.
- 4) Performing any repair work to the Bent W3R footing necessary due to any damage incurred during the demolition of the concrete foundations specified under Item No. 3 above.

For this work, the Contractor shall be compensated a lump sum of (NOT TO EXCEED) \$4,500,000.00. Except for the items of work specifically excluded in this change order, this sum constitutes full and final compensation, including all markups, for all costs associated with the work of this change.

Compensation paid under this change order provides for the processing and transportation of all structural steel being demolished under this change to a steel salvage yard. Any compensation provided to the Contractor for the salvage value associated with this steel shall be credited to the Department through a supplemental change order.

This change order excludes any costs associated with the backfill of the ETI area. Any costs associated with this work shall be paid under a separate change order.

Flagging costs associated with the work of this change shall be paid under Change Order No. 1 with these costs being paid at 50% by the Department. The remaining flagging costs are considered to be included in the lump sum compensation provided under this change order.

The compensation paid under this change order includes all engineering and survey costs associated with the work of this change order and no additional compensation shall be paid.

Total Cost of Extra Work at Force Account.....\$4,500,000.00 (NOT TO EXCEED)

CONTRACT CHANGE ORDER

Change Requested by: Engineer

CCO 217	Suppl. No. 0	Contract No. 04 - 0120R4	Road SF-80-12.6/13.2	FED. AID LOC.: ACBRIM-080-1(097)N
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Estimated Cost: Increase ☒ Decrease ☐ \$4,500,000.00

By reason of this order the time of completion will be adjusted as follows: 0 days

Submitted by		
Signature	Resident Engineer BILL CASEY	Date

Approval Recommended by		
Signature	SFOBB Construction Manager MIKE FORNER	Date

Engineer Approval by		
Signature	SFOBB Construction Manager MIKE FORNER	Date

We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by		
Signature	(Print name and title)	Date

CONTRACT CHANGE ORDER MEMORANDUM

DATE: 9/16/2009 Page 1 of 2

TO: MIKE FORNER / DEANNA VILCHECK			FILE: E.A. 04 - 0120R4	
FROM: BILL CASEY			CO-RTE-PM SF-80-12.6/13.2	
			FED. NO. ACBRIM-080-1(097)N	
CCO#: 217	SUPPLEMENT#: 0	Category Code: CHPT	CONTINGENCY BALANCE (incl. this change) \$49,415,400.59	
COST: \$4,500,000.00			INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/>	
SUPPLEMENTAL FUNDS PROVIDED: \$0.00			HEADQUARTERS APPROVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CCO DESCRIPTION: Skid Bent & ETI Foundation Demolition			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
PROJECT DESCRIPTION: CONSTRUCT ROUTE 80 TEMP BYPASS STRUCTURE				
Original Contract Time: 475 Day(s)	Time Adj. This Change: 0 Day(s)	Previously Approved CCO Time Adjustments: 1195 Day(s)	Percentage Time Adjusted: (including this change) 252 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 7

THIS CHANGE ORDER PROVIDES FOR:

the demolition and disposal of the East Tie-In skid bent system.

This project was awarded in March 2004 to construct a detour that will allow for the tie in of the new east span of the San Francisco Oakland Bay Bridge to Yerba Buena Island. The detour encompasses three main structures, the East Tie-In (ETI) to the existing bridge, the West Tie-In (WTI) to Yerba Buena Island and the Viaduct structure between the two tie ins.

The original contract was awarded as a performance based contract with the contractor responsible for the design of the structures based upon meeting specified design criteria. The Department issued a December 14, 2006 memo entitled Strategy for South-South Detour Contract Completion which was approved by Tony Anziano (Toll Bridge Program Manager), Richard Land (Chief Engineer) and subsequently by the TBPOC. This memo recommended that the design of the ETI structure be assumed by the Department as opposed to the as-bid performance based contractor design.

The new design of the ETI structure provides for a roll-out / roll-in concept with a new double deck steel truss span being erected adjacent to the existing span and then rolled into place after the existing span is rolled out. As part of this work, a skid bent system has been constructed to provide for the roll out of the existing truss and the roll in of the new truss. This change order provides for the demolition and disposal of the skid bent system.

The work encompassed under this change includes the demolition of over 3,000 metric tons of steel members including 24 steel tower legs up to 1.5 meters in diameter and 45 meters high and 2 approximately 100-meter long skid beams weighing over 4 metric tons per meter all being supported by extensive steel bracing and supports. The work also includes the demolition of over 50 reinforced concrete foundations totaling approximately 1,600 cubic meters of concrete and the demolition of 8 structural steel members that were installed to provide stability to the existing and new trusses during their roll out and roll in.

The change order provides for the processing and transportation of all structural steel being demolished under this change order to a steel salvage yard. Any compensation provided to the Contractor for the salvage value associated with this steel shall be credited to the Department through a supplemental change order. It is currently estimated this credit could exceed \$500,000.00.

Compensation for the work of this change shall be paid as extra work at an agreed lump sum price of (NOT TO EXCEED) \$4,500,000.00, which shall be financed from the contract's contingency funds. A cost analysis is on file.

No adjustment of contract time is warranted as the change does not affect the controlling operation.

This change was concurred with by Alec Melkonians - Asst. Project Manager and Hong Wong - Project Engineer. TBPOC Approval is pending.

Maintenance concurrence is not required as the work will not affect and permanent roadway items.

CONTRACT CHANGE ORDER MEMORANDUM

CONCURRED BY:			ESTIMATE OF COST		
Construction Engineer:	Bill Casey, Resident Engineer	Date	THIS REQUEST		TOTAL TO DATE
Bridge Engineer:		Date	ITEMS	\$0.00	\$0.00
Project Engineer:	Hong Wong, PE	Date	FORCE ACCOUNT	\$0.00	\$0.00
Project Manager:	Alec Melkonians	Date	AGREED PRICE	\$4,500,000.00	\$4,500,000.00
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$0.00
Environmental:		Date	TOTAL	\$4,500,000.00	\$4,500,000.00
Other (specify):		Date	FEDERAL PARTICIPATION		
Other (specify):		Date	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE		
District Prior Approval By:		Date	<input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
HQ (Issue Approve) By:	Bob Molera, HQ CCO Engineer	Date	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)		
Resident Engineer's Signature:		Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
			FEDERAL FUNDING SOURCE	PERCENT	

Yerba Buena Island Detour, Contract No. 04-0120R4
Contract Change Order Implementation Strategy
September 17, 2009

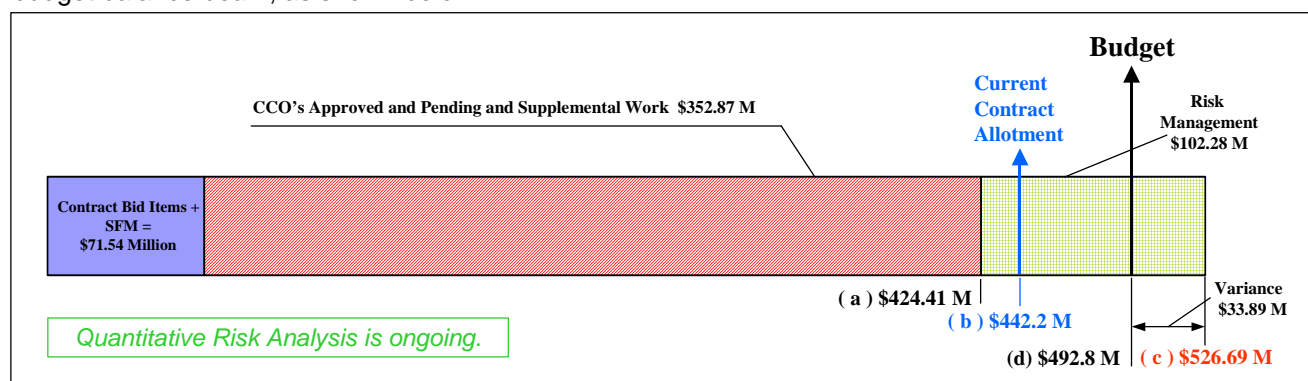
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Yerba Buena Island Detour (Contract 04-0120R4)			
Contract Award:	March 10 th , 2004	Suspension Days:	302 Working Days
Original Working Days:	475 Working Days	Contract Extensions:	1660 Working Days
Original Contract Completion:	July 27th, 2005	Projected Contract Completion:	December 10, 2010

Introduction

Two memos were developed to outline a strategy for a revised YBID project that enhanced YBID viaduct design, developed tie-in design (east and west) in-house, improved the retrofit of the YBI viaduct (replacing the top deck of the viaduct rather than retrofitting in place) and advanced and incorporated select YBITS foundation work. The two memos are "San Francisco-Oakland Bay Bridge Corridor Schedule Mitigation – Strategy for South-South Detour Contract Completion" issued December 14, 2006, and "Recommendation to Construct Select Yerba Buena Island Transition Structure Foundations by Contract Change Order" issued on December 25, 2006. This strategy will result in substantial increases in the cost of the YBID project.

As approved at the June 2009 TBPOC meeting the revised budget for the YBID project is 492.8M. This figure was established in May 2009 using all available information to date. This figure is within the projects approved budget balance beam, as shown below:



Scope of Work for YBID

The revisions to the original scope of work currently associated with the Yerba Buena Island Detour Project have been assigned into the following categories with their associated estimated cost:

Category	Scope of Work	Current Budget (June 2009)	In Progress Status Update from June 09 Approved Budget	
			Current	Delta
(0)	Original Bid Items, Baseline CCOs (1 through 48), and State Furnished Materials	\$83.7	\$83.7	\$0
(1)	YBID New Viaduct	\$40.1	\$40.4	\$0.3
(2a)	West Tie-In Existing Viaduct Phase 1	\$40.1	\$40.1	\$0.0
(2b)	West Tie-In Phase 2	\$21.8	\$18.0	(\$3.8)
(3)	East Tie-In	\$140.0	\$140.5	\$0.5
(4)	YBI Transition Structures Advance Foundations	\$104.3	\$103.2	(\$1.1)
(5)	Administrative Issues and General CCOs	\$37.8	\$37.3	(\$0.5)
Subtotal		\$467.8	\$463.2	(\$4.6)
Contingency		\$25.0	\$29.6	
Approved Budget		\$492.8		

Contract payments as of August 15, 2009: \$378.4M

As shown, the current status of CCOs required to modify the original scope of the YBID work as defined in Categories 1 through 5 is \$379.5M. The status of each category of work is discussed in the succeeding pages of this report.

Yerba Buena Island Detour, Contract No. 04-0120R4
Contract Change Order Implementation Strategy
September 17, 2009

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Bid Items, Baseline CCOs, & State Furnished Material

0

The break down of Category (0) is as follows:

Original Contract Amount	\$ 71.2 million
Baseline CCOs (1 through 48)	\$ 12.1 million
State Furnished Materials	\$ 0.4 million
Total	\$ 83.7 million
Baseline Contract Change Orders (1 through 48)	

CCO #	Description	Executed Date	Cost
1	Flagging and Traffic Control	5/13/2004	\$100,000.00
1S1	Additional Funds for Flagging and Traffic Control	2/9/2007	\$200,000.00
2	Bidder Compensation	5/8/2004	\$1,575,000.00
3	Partnering	9/7/2004	\$25,000.00
4	DRB	9/7/2004	\$100,000.00
5	Federal Trainee Program	11/12/2004	\$20,000.00
5S1	Non-Journey Person Training	3/10/2005	\$50,000.00
6	Removal of DBE/SBE Monitoring	2/10/2005	\$0.00
7	Sampling and Analysis Work	8/30/2004	\$30,000.00
8	SWPPP Maintenance Sharing	8/30/2004	\$75,000.00
9	Additional Photo Survey/Public Relations	9/14/2004	\$50,000.00
10	Temporary Shuttle Van Service	7/16/2004	\$650,000.00
10S1	Additional Funds for Temporary Shuttle Van Service	6/23/2005	\$100,000.00
10S2	Additional Funds for Temporary Shuttle Van Service	1/12/2007	\$500,000.00
11	Utility Potholing	9/14/2004	\$100,000.00
12	Just-In-Time Training (RSC Pavement)	2/10/2005	\$5,000.00
13	PMIV Document Management System	11/3/2004	\$486,743.50
14	Temporary Suspension	5/19/2004	\$0.00
15	Archaeology Investigation	7/19/2004	\$30,000.00
15S1	Additional Funds for Archaeology Investigation	4/22/2005	\$15,000.00
16	Roadway Profile at WTI	Voided	N/A
17	Modify Drainage at G4 Entry Vault	10/24/2006	\$108,217.45
18	Access Control Measures	9/8/2004	\$50,000.00
19	EDR1 Alignment Modification	5/12/2005	\$0.00
20	A490 Bolts	10/23/2006	\$0.00
21	Removal /Disposal of Stairway	4/13/2005	\$14,060.00
22	Clean Stairs and Walkways	5/24/2005	\$35,000.00
22S1	Additional Funds for Cleaning Stairs and Walkways	11/24/08	\$25,000.00
23	Shared Field Data System (ShareArchive)	Voided	N/A
24	East and West Tie-In Temporary Suspension	2/1/2005	\$2,181,467.40
Total for Baseline Contract Change Orders			\$12,107,527

CCO #	Description	Executed Date	Cost
24S1	Read Inclinometer/Adjust Equipment Costs	10/18/2005	\$29,782.99
24S2	Temporary Suspension Partially Extended	5/2/2006	\$4,812,631.58
24S3	Contract Days Extension/TRO Compensation	Voided	N/A
25	Bent 48, 49R, 52R Outside Boundary	3/24/2005	(\$19,000.00)
26	Bent 48 Articulation	4/22/2005	\$0.00
27	Bent 52L Footing Conflict	1/19/2006	\$94,386.51
28	Hydroseed Around W2 Columns	3/24/2005	\$20,000.00
29	Replacement of Surveillance Camera	3/24/2005	\$3,542.00
30	Additional Elastic Response Analysis	5/31/2005	\$10,700.00
31	Soil Analysis Outside Plan Limits	6/27/2005	\$20,000.00
32	SFPUC Permit Specification Change	5/17/2005	\$0.00
33	Design Enhancements	Voided	N/A
34	Pole Structure Welding Specification Revision	9/30/2005	\$0.00
35	Revision of East Tie-In Design Criteria	Voided	N/A
36*	Extend Limits of Viaduct Demolition	Voided	N/A
37	4 Hr Emergency Travel Way	Voided	N/A
37S1	Emergency Travel Way Falsework	Voided	N/A
38	Revision of West Tie-In Design Criteria	8/4/2005	\$0.00
39	Provide Shuttle Service to USCG	6/27/2005	\$10,000.00
40	Sewer Pipe Material Change	9/26/2005	\$1,561.95
41	Bent 49L Utility Relocation	Voided	N/A
42	Bent 48R Pile Load Test	9/12/2005	\$20,000.00
42S1	Bent 52R Pile Load Test	12/15/2005	\$5,000.00
43	Material On Hand Specification Change	9/16/2005	\$75,953.88
43S1	Addition of YBITS Advance to Material On Hand	Voided	N/A
44	Electrical Call Box Relocation		\$47,480
45	Additional SWPPP	2/21/2006	\$250,000.00
46	Southgate Road Reopening	3/8/2006	\$50,000.00
47	Hazardous/Non-Hazardous Soil Removal	12/15/2005	\$100,000.00
48	Buried Man-Made Objects	12/15/2005	\$50,000.00
Total for Baseline Contract Change Orders			\$12,107,527

- The scope of work for CCO No. 36 was completed and compensated for under the larger scope of CCO No. 76.

Yerba Buena Island Detour, Contract No. 04-0120R4
Contract Change Order Implementation Strategy
September 17, 2009

DRAFT

SSD New Viaduct

1

Progress of Work

Fabrication of the structural steel truss took place at Dongkuk S&C in South Korea. With the placement of traffic onto the detour, the construction of the Viaduct is substantially complete. Minor punch list work remains.

Status of Contract Change Orders: YBID New Viaduct:

CCO	Method of Payment	Description	HQ Status	TBPOC Status	CCO Status	Current Estimate/ Actual Cost	Change from June 09 Approved Budget
49	LS	Stringer and Floor Beam Design Study	N/A	N/A	Executed 5/2/2006	\$109,183	
49S1	FA	Truss Design Modifications (Changes to Stringer and Floor Beam Connections)	I&A 12/08/06	N/A	Executed 8/17/2006	\$150,000	
49S2	FA		I&A 12/08/06	N/A	Executed 12/18/2006	\$100,000	
Subtotal (CCO #49 and Supplements)						\$359,182	
50	FA	Stand Alone Viaduct Design	N/A	N/A	Executed 5/8/2006	\$325,000	
50S1	FA		I&A 9/21/06	N/A	Executed 10/16/2006	\$300,000	
50S2	FA		I&A 12/08/06	N/A	Executed 12/18/2006	\$100,000	
50S3	FA		I&A 2/09/07	N/A	Executed 2/13/07	\$175,000	
Subtotal (CCO #50 and Supplements)						\$900,000	
54	LS	Deck Drainage	N/A	N/A	Executed 5/2/07	\$8,000	
55	LS	Viaduct Fabricator Change (SGT Closeout)	I&A 7/08/07	Approved 6/27/07	Executed 8/7/07	\$5,665,330	
55S1	LS	SGT Fabrication Closeout - Dongkuk Materials	I&A 1/24/08	Approved 3/5/08	Executed 3/17/08	\$980,600	
59	LS	Water Blast Rebar Cages	N/A	N/A	Executed 2/22/07	\$5,000	
59S1	LS	Additional funds, Water Blast Rebar Cages	N/A	N/A	Executed 11/24/08	\$5,000	
60	LS	Construction of Bent Caps	I&A 6/13/07	Approved 6/27/07	Executed 6/18/07	\$7,435,950	
67	FA	Viaduct/ETI Interface Modifications (Design Cost)	I&A 5/14/07	N/A	Executed 9/27/07	\$800,000	
79	LS	Fabrication Cost for Viaduct Design Changes July '05 - October '06	I&A 7/19/07	N/A	Executed 8/7/07	\$803,400	
79S1	LS	Fabrication Cost for Viaduct Design Changes - July 05-Oct 06	I&A 6/13/08	N/A	Executed 8/4/08	\$75,860	
80	LS	Erection Costs for Viaduct Design Changes through October 2006	N/A	Approved 1/31/08	Executed 2/20/08	\$6,912,200	
82	FA	OGAC Paving and Expansion Dams		N/A	In progress	\$327,680	\$181,386
213	LS	Bent 48 Expansion Joint & Drainage Escalation	I&A 7/23/09	N/A	Executed 8/06/09	\$488,100	
85	LS	Design of 300mm Waterline Relocation	N/A	N/A	Executed 3/17/08	\$12,480	
87	LS	Viaduct Shipping Escalation Costs	I&A 7/24/07	N/A	Executed 10/2/07	\$534,570	
87S1	LS	Viaduct Shipping Escalation Costs	I&A 1/14/08	N/A	Executed 1/30/08	\$200,000	
88	LS	Viaduct Fabrication Delays	I&A 7/19/07	N/A	Executed 8/7/07	\$954,460	
88S1	LS	Viaduct Fabrication Delays	I&A 8/22/07	N/A	Executed 9/27/07	\$776,630	
98	FA/LS	Viaduct Steel Storage and Handling Cost	I&A 5/30/08	N/A	Executed 6/18/08	\$845,370	

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99	LS	Viaduct Erection Costs (Post Oct. 2006)	I&A 4/17/08	N/A	Executed 5/22/08	\$862,614	
99S1	LS	Additional Viaduct Erection Costs		N/A	In progress	\$125,000	
100	FA	Viaduct Fabrication Costs (Post Oct. 2006)	I&A 1/22/08	N/A	Executed 1/28/08	\$650,000	
105	FA/LS	Dongkuk Fabrication and Temp Bracing Fabrication Costs (July 2007 Plans)	I&A 4/2/08	Approved 4/3/08	Executed 4/17/08	\$2,140,640	
106	-	CCO Voided...previous scope of work was incorporated into CCO 105	-	-	-	-	-
107	LS	Furnish and Drive Erection Tower Falsework Piles	I&A 8/07/08	N/A	Executed 10/02/08	\$855,190	
111	FA/LS	USCG Parking Replacement and Protection	N/A	N/A	Executed 3/17/08	\$163,223	
111S1	LS	Additional costs USCG Parking Lot	N/A	N/A	Executed 6/30/08	\$8,940	
115	FA	Third VIA Shipping for CCO #67 July 07 plans	I&A 5/06/08	N/A	Executed 5/22/08	\$850,000	
128		60% of Waterline Relocation and Viaduct Connection Modifications		N/A	In progress	\$863,590	
133	-	Lightweight Conc. Mix Design Spec Change	N/A	N/A	Executed 9/12/08	\$0	
134	LS	60% of Project Wide Electrical Changes	7/7/09	Approved 5/7/09	Executed 8/25/09	\$1,380,554	
196	LS	Revised Electrical Lighting	N/A	N/A	Executed 7/28/09	\$35,944	(\$174,056)
135	LS	Rebar Deck Escalation Costs	I&A 11/09/08	N/A	Executed 1/28/09	\$995,100	
136	FA/LS	Provide additional alternate entrance access to USCG Base	N/A	N/A	Executed 9/23/08	\$74,540	
138	LS	Waterline Relocation for Fire Hydrant (Conflicts with Span 49 Falsework)	N/A	N/A	Executed 9/23/08	\$278,200	
148	FA	USCG Road Canopy below Viaduct	I&A 8/27/08	N/A	Executed 9/23/08	\$500,000	
152	LS	Relocate USCG Road for steel erection FW Towers at Span 51	I&A 1/06/09	N/A	Executed 2/4/09	\$336,420	
156	LS	Span 49 F/W Conflict w/ USCG Utilities	N/A	N/A	Executed 9/23/08	\$180,820	
163	LS	Viaduct Grade Conflict	N/A	N/A	Executed 6/12/09	\$83,202	(\$16,798)
173		Deck Casting and Expansion Joint Escalation		TBD	In Progress	\$1,000,000	
178		Type 7 Fence at Barrier		N/A	In Progress	\$457,356	\$374,176
198		Job Wide Stripping Plan (Viaduct Portion)		TBD	In Progress	\$90,000	
199		Install Overhead Sign		TBD	In Progress	\$100,000	
201		Viaduct Steel Erection USCG Protective Netting		N/A	In Progress	\$156,350	(\$73,650)
209	LS	Viaduct USCG Flagging & Delays (Span 51)	N/A	N/A	Executed 8/13/09	\$92,810	(\$47,190)
Current Forecast for YBID New Viaduct						\$40,370,306	\$243,868

Budget Status

The Viaduct portion of the YBID was bid at \$26.74M. The projected additional costs in the December 14, 2006 Strategy Memorandum were estimated to be \$9M. The June 2009 revised additional cost estimate is \$40.1M with a current projection of \$40.4M. CCOs executed to date are \$37.3M.

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West Tie-In

Phase 1

2a

Progress of Work

Phase 1 work was substantially complete with the move in of the Structure on September 03, 2007. Miscellaneous electrical and drainage work remain. WB On-ramp was reopened on August 8, 2008.

Status of Contract Change Orders: West Tie-In Existing Viaduct (Phase 1)

CCO	Method of Payment	Description	HQ Status	TBPOC Status	CCO Status	Current Estimate/ Actual Cost	Change from June 09 Approved Budget
58	FA	Bridge Removal Plan	N/A	N/A	Executed 11/21/06	\$60,000	
58 S1	FA	Bridge Removal Plan	N/A	N/A	Executed 7/05/07	\$40,000	
61	FA	Advance Engineering (Work Plans and Submittals), Site Prep (Ramp Closures, Access Road), Civil Work (Grading), Structure Work (Material Procurement)	I&A 1/09/07	N/A	Executed 2/27/07	\$400,000	
61S1	LS/FA	Construction of Stage 1 Area and Substructure	I&A 5/16/07	Approved 6/27/07	Executed 5/18/07	\$9,995,644	
66	FA	TMP – Video Equipment (WTI Phase 1)	N/A	N/A	Executed 7/20/07	\$175,000	
68	FA	Temporary Electrical Work	N/A	N/A	Executed 7/20/07	\$140,000	
68S1	FA	Temporary Electrical Work Stage 2, 3 & 4	I&A 12/02/07	N/A	Executed 10/31/07	\$510,000	
72	LS	Structure Work (Superstructure), and Temporary Shuttle Service	I&A 7/19/07	Approved 7/27/07	Executed 7/20/07	\$11,096,900	
76	LS	Labor Day Bridge Demolition and Move-In	I&A 7/19/07	Approved 7/27/07	Executed 7/20/07	\$2,240,300	
76S1	LS	Labor Day Bridge Move-In (Changeable Message Signs, Temporary Signs, Traffic Control, Bridge Removal, Bridge Move-In, Paving and Roadway Repairs, CCM Support Costs, City Traffic Officers)	I&A 8/28/07	Approved 8/24/07	Executed 9/27/07	\$10,144,140	
84	LS	Skid Track Foundations and Temporary Columns	I&A 7/27/07	Approved 7/27/07	Executed 7/31/07	\$3,980,000	
101	LS	Reconstruct Slab, West Bound On-ramp	I&A 4/02/08	N/A	Executed 4/17/08	\$846,140	
101S1	LS	WB Onramp Supplemental Work	I&A 1/06/09	N/A	Executed 2/4/09	\$149,560	
102	FA	North side Drainage Work	N/A	N/A	Executed 4/4/08	\$60,000	
102S1	LS	Northside Drainage Work	N/A	N/A	Executed 7/15/09	\$48,818	
102S2	FA	Additional Northside Drainage Work	N/A	N/A	Executed 7/15/09	\$50,000	
103	LS	Labor Day Weekend Closure Misc. Costs	N/A	N/A	Executed 2/20/08	\$173,140	
Current Status for West Tie-In (Phase 1)						\$40,109,642	\$46,578

Budget Status

The projected additional costs in the December 14, 2006 Strategy Memorandum were estimated to be \$40M. The June 2009 revised additional cost estimate is \$40.1M with a current projection of \$40.1M. CCOs executed to date are \$40.1M.

West Tie-In

Phase 2

2b

Progress of Work

With the placement of traffic onto the detour, Frames 1, 2, and 3 are substantially complete. Minor punch list work, including the installation of south side drainage system, remains.

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Status of Contract Change Orders: West Tie-In (Phase 2)

CCO	Method of Payment	Description	HQ Status	TBPOC Status	CCO Status	Current Estimate/ Actual Cost	Change from June 09 Approved Budget
62	LS	Construction of Phase 2 Foundations and Credits for Elimination of Bid Items 12 and 90	I&A 2/29/08	Approved 4/4/08	Executed 4/7/08	(\$4,649,850)	
200		Shoring at Abutment 47A		TBD	In Progress	\$300,000	
71	LS	WTI Phase 2 Pile at Bent 46L/Slab Bridge Removal	I&A 7/24/07	N/A	Executed 7/20/07	\$384,130	
108	LS	Substructure	I&A 6/20/08	Approved 6/18/08	Executed 6/25/08	\$5,378,800	
117	FA	Surface Drainage (Southside)	N/A	N/A	Executed 1/6/09	\$150,000	
128		20% of Waterline Relocation and Stringer Stiffeners		N/A	In progress	\$154,530	
134	LS	20% of Project Wide Electrical Changes	7/7/09	Approved 5/7/09	Executed 8/25/09	\$460,185	
196	LS	Revised Electrical Lighting	N/A	N/A	Executed 7/28/09	\$11,981	(\$58,019)
141	LS/FA	Superstructure Construction	I&A 11/13/08	Approved 11/18/08	Executed 11/25/08	\$13,200,000	
141S1	ACUP	Superstructure Construction Completion Incentive (Release of Frame 1 Bent Cap FW)	I&A 5/15/09	Approved 5/15/09	Executed 5/15/09	\$1,500,000	
143	LS/ID	Civil Work (EB Onramp and Mainline)	I&A 6/11/09	N/A	Executed 7/28/09	\$156,436	(\$3,680,814)
161	LS	T7-Line Detour	I&A 11/10/08	N/A	Executed 11/25/08	\$403,965	
168		Superstructure Design Modifications		TBD	In Progress	\$500,000	
198		Job Wide Stripping Plan (WTI Phase 2 Portion)		TBD	In Progress	\$70,105	
Current Status for West Tie-In (Phase 2)						\$18,020,282	(\$3,738,833)

Budget Status

The Contractor's bid price for the West Tie-In was \$9.0M. Based on the Department's December 14, 2006 Strategy Memorandum, the costs associated with the Phase 2 West Tie-In work were estimated to be an additional \$13.0M. The June 2009 revised additional cost estimate is \$21.8M, with a current projection of \$18.0M. CCOs executed to date are \$17M.

East Tie-In

3

Bent 52A and skid bent foundation design packages were delivered October 2007. ETI design plans for the skid bents and skid beams were delivered March 15, 2008 and truss plans were delivered April 7, 2008.

Fabrication of the skid bents and skid beams took place at Thompson Metal Fab, Inc. in Vancouver, WA and the fabrication of the truss took place at Stinger Welding Inc. in Coolidge, AZ.

The existing SFPUC sanitary sewer pump station has been relocated with the new pump station up and running. The East Tie-In structure was successfully moved into place and traffic switch onto the detour on September 8, 2009.

Demolition of the old YB-4 span is in progress.

Status of Contract Change Orders: East Tie-In

CCO	Method of Payment	Description	HQ Status	TBPOC Status	CCO Status	Current Estimate/ Actual Cost	Change from June 09 Approved Budget
63	FA	Advance Engineering (Work Plans and Submittals)	I&A 8/22/07	N/A	Executed 9/27/07	\$800,000	
69	LS	Procurement of Pump/Control Panel for Pump Station Relocation	N/A	N/A	Executed 10/10/07	\$111,280	
69S1	LS	Construction for Pump and Control Panel for Relocated Pump Station	I&A 12/19/07	N/A	Executed 3/17/08	\$499,996	
69S2	LS	Sewer Pump Electrical Changes	I&A 2/25/09	N/A	Executed 4/08/09	\$8,953	

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92	FA	ETI AT&T Fiber Optic Relocation	N/A	N/A	Executed 12/17/07	\$175,000	
93	LS/FA	Lead Paint Mitigation Existing Truss (Span YB-4)	I&A 2/13/08	N/A	Executed 2/20/08	\$563,725	(\$3)
93S1	LS	Additional Lead Abatement at Span YB-4	I&A 6/8/09	N/A	Executed 6/17/09	\$347,417	
104	LS	Pier E-1 Access Towers	N/A	N/A	Executed 1/30/08	\$150,000	
113	LS	Relocate Waterline in Conflict with Northern Skid Bent Footings	N/A	N/A	Executed 3/17/08	\$167,990	
128		20% of Waterline Relocation and ETI Exterior Stringer Stiffeners		TBD	In progress	\$354,530	
137	LS	Pump station Water Tank Demo	N/A	N/A	Executed 6/26/08	\$114,490	
90	LS	Bent 52A and Skid Bent Footings and Credits for Eliminated Bid Items 10 and 42	I&A 3/26/08	Approved 4/4/08	Executed 4/14/08	\$11,308,380	
97	FA	Bent 52A and Skid Bent Footing's Material Procurement	I&A 11/06/07	N/A	Executed 11/19/07	\$850,000	
121	LS	Construct Stage 1 Soil Nail Wall, Upper East Tie-In area	N/A	N/A	Executed 3/17/08	\$142,670	
121S1	LS	Construct Stage 2 Soil Nail Wall, Upper East Tie-In area	N/A	N/A	Executed 3/18/09	\$518,130	
162	LS	Bent A3 Shoring	I&A 3/30/09	N/A	Executed 4/01/09	\$268,235	
180	LS	Skid Bent Footing Backfill at A4-A6 and B4-B6	I&A 5/20/09	N/A	Executed 6/12/09	\$237,000	
127	FA	RTU – 8 Service Platform	N/A	N/A	Executed 9/03/08	\$75,000	
134	LS	20% of Project Wide Electrical Changes	7/7/09	Approved 5/7/09	Executed 8/25/09	\$460,185	
196	LS	Revised Electrical Lighting	N/A	N/A	Executed 7/28/09	\$11,981	(\$58,019)
129	LS	Skid Bent and Truss Steel Erection	I&A 11/05/08	Approved 11/10/08	Executed 11/25/08	\$14,712,500	
129S1	LS	Skid Bent and Truss Steel Erection Acceleration	I&A 3/09/09	Approved 3/5/09	Executed 4/01/09	\$535,000	
129S2	LS	Skid Bent and Truss Steel Erection Incentive	I&A 6/9/09	Approved 6/4/09	Executed 6/17/09	\$1,177,000	
179	LS	ETI Truss Steel Erection Falsework Foundations	I&A 4/20/09	N/A	Executed 4/08/09	\$312,000	
181		Skid Bent/Beam and Truss Erection Support		N/A	In Progress	\$500,000	
112	FA	Material Procure Skidbent (1532 Tower Legs)	I&A 1/10/08	Approved 2/4/08	Executed 2/19/08	\$2,000,000	
112S1	FA	Material Procure ETI Superstructure	I&A 3/03/08	Approved 3/5/08	Executed 3/17/08	\$8,500,000	\$1,349,560
112S2	FA	Material Procure ETI Temporary Bypass Structure	I&A 6/04/08	Approved 6/16/08	Executed 6/25/08	\$3,500,000	
112S3	FA	Material Procure - Additional Funds	I&A 10/31/08	Approved 11/13/08	Executed 11/25/08	\$3,000,000	
112S4	FA	Material Procure - Additional Funds	I&A 7/7/09	Approved 7/15/09	Executed 7/16/09	\$1,500,000	
116	FA/LS	Fabricate Superstructure & Skidbent	I&A 6/04/08	Approved 6/16/08	Executed 8/8/08	\$14,166,180	
116S1	FA/LS	Skidbeam Design Modifications and Shipping Costs	I&A 12/19/08	Approved 12/23/08	Executed 2/3/09	\$1,896,750	
116S2	FA/LS	Skidbeam Design Modifications and Shipping Costs	I&A 7/7/09	Approved 7/15/09	Executed 7/16/09	\$300,000	
140	LS	Truss Steel Fabrication	I&A 9/04/08	Approved 9/04/08	Executed 9/23/08	\$10,920,525	
140S1	ACUP	Truss Fabrication Incentive	I&A 6/17/09	Approved 9/04/08	Executed 7/6/09	\$300,000	
166	LS	Skid Bent & Beam Fabrication Acceleration	I&A 12/22/08	Verbal Approval 11/06/08 Approved 12/23/08	Executed 1/28/09	\$2,028,950	

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166S1	ACUP	Skid Bent & Beam Fabrication Incentive	I&A 5/15/08	Approved 12/23/08	Executed 5/15/09	\$900,000	
167	LS	TMF – Shop Drawing Delay	I&A 3/16/09	N/A	Executed 5/6/09	\$632,670	
184	LS	Truss Design Modifications and Acceleration Costs (Partial Payment)	I&A 5/20/09	Approved 6/4/09	Executed 6/12/09	\$3,000,000	
184S1	LS	Truss Design Modifications and Acceleration Costs (Partial Payment)	I&A 7/31/09	Approved 8/6/09	Executed 8/11/09	\$4,393,420	
214		Truss Fabrication Acceleration Field Adjustments		N/A	In Progress	\$900,000	
187	FA	Temporary Bracing for Truss Exterior Stringers	N/A	N/A	Executed 7/16/09	\$150,000	
193	LS	Skid Beam Design Modifications	I&A 7/7/09	N/A	Executed 7/16/09	\$256,140	
206		DCCI Support Costs (Skid Bent Fabrication)		N/A	In Progress	\$200,000	
144	FA	Expansion Joint Mock-up	I&A 8/26/08	N/A	Executed 9/23/08	\$850,000	
144S1	FA	Expansion Joint Fabrication	I&A 2/03/08	Approved 2/5/09	Executed 4/06/09	\$2,900,000	
149	FA	Bearing Fabrication	I&A 11/03/08	Approved 11/10/08	Executed 11/25/08	\$1,600,000	
153	LS	Concrete Deck and barrier starter steel	I&A 6/23/09	Approved 6/4/09	Executed 7/6/09	\$2,389,940	(\$378,266)
154	LS	East Pile Deduct at BW6, East Pile	N/A	N/A	Executed 9/04/08	(\$400)	
154S1	LS	Pile Anomaly Deduction at A6W & B52A	N/A	Approved 11/13/08	Executed 11/25/08	(\$2,183)	
160	FA	Existing Truss Retrofit Fabrication	I&A 4/20/09	N/A	Executed 4/08/09	\$350,000	
170		Existing Truss Strengthening Erection YB-4		N/A	In Progress	\$413,600	(\$336,400)
175	LS	Existing Truss Strengthening Erection Stability Bracing at YB 3	I&A 7/22/09	N/A	Executed 8/13/09	\$311,144	(\$188,856)
164	LS	ETI Steel Erection Crane Runway Trestle	I&A 11/20/08	ATP 11/14/08 Approved 12/23/08	Executed 12/6/09	\$2,700,000	
169	LS	Skid Beam Jobsite Handling and Local Transportation Costs	I&A 1/02/09	Approved 12/23/08	Executed 2/25/09	\$1,095,020	
171	LS	Bridge Roll Out / Roll In	I&A 6/8/09	Approved 6/4/09	Executed 6/17/09	\$10,147,370	(\$328,820)
172	LS	Lead Paint Abatement and Access at YB-3	I&A 12/18/08	N/A	Executed 2/4/09	\$210,450	
174	FA	ETI Steel Barrier Rail Transition Fabrication	I&A 5/20/09	N/A	Executed 6/17/09	\$350,000	
174S1		Expansion Joint Barrier Plate Fabrication Plan Changes		N/A	In Progress	\$0	
177		Span YB-4 Demolition		TBD	In Progress	\$11,249,560	\$2,144,656
217		Skid Bent Demolition and Backfill		TBD	In Progress	\$4,500,000	
186	LS	TMP (Lane Closures and CMS)		Approved 6/4/09	In Progress	\$2,390,910	(\$609,090)
198		Job Wide Stripping Plan (ETI Portion)		TBD	In Progress	\$48,415	
		ETI OGAC on Bridge Deck		TBD	Future	\$0	
		District work – road signage, stage construction, SWPPP, Temp k-rail, etc		TBD	Future	\$268,125	
204	FA	CCM's Labor Day Support Costs	I&A 7/14/09	Approved 7/15/09	Executed 8/6/09	\$3,500,000	
		Expansion Joint Seal Installation (previously CCO 189)					
		ETI Steel Barrier Rail Transition Installation (previously CCO 190)					
		Stability Bracing at YBI (Previously CCO 175)					
		Bearing Installation (previously CCO 191)					
		Barrier Rail Installation (previously CCO 202)					
204S1		Additional Funds (If needed)		TBD	Future	\$1,400,000	
207	FA	Field Design Modifications Truss – Fabrication (U1, U8, L1, L8)	I&A 7/16/09	N/A	Executed 7/28/09	\$400,000	(\$1,100,000)

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		Field Design Modifications Truss – Erection (U1, U8, L1, L8)		N/A	In Progress	\$500,000	
Current Status for East Tie-In						\$140,518,048	\$494,762

Budget Status

The Contractor's bid price to construct the Contractor's design for the East Tie-In was \$6.0M with an additional \$1.46M to demolish the remaining portion of the ETI YB-4 span. The Department's December 14, 2006 Strategy Memorandum estimated an additional cost of \$34.0M to construct the Department's ETI roll out/roll in design concept. At the time, this estimate was based on minimal design information available. The June 2009 revised additional cost estimate is \$140.0M, with the current projection at \$140.5M. CCOs executed to date are \$117.8M.

Major cost increases to date are attributed to an increase in steel weight from the 65% to 100% designed plans, along with a market fluctuation in steel price, as well as additional costs to expedite the ETI construction work.

**Yerba Buena Island Transition Structures
Advance Foundations**

4

Progress of Work

The YBITS foundation and column locations being advanced are W3R/L, W4R/L, W5R/L, W6R/L, W7R/L, W7 Ramp and the temporary E.B. onramp abutment.

- W3 3L – substantially completed
3R – column (2nd lift of 2) in progress
- W4 4L – substantially completed
4R – column (3rd lift of 3) in progress
- W5 5L – 75 of 140 piles driven
5R – driving of shoring piles substantially completed
- W6 6L – substantially completed
6R North – column (3rd lift of 3) in progress
6R South – substantially completed
- W7 construction of the temporary soil nail wall and soldier pile shoring complete
7L North – excavation complete
7L South – substantially completed
7R – column (2nd lift of 3) in progress
Ramp – substantially completed
- EB On-ramp abutment – temporary shoring piles and permanent CIDH piles have been installed

Demolition of the main portion of the old structure (Bent 48 to YB4) is in progress.

Status of Contract Change Orders: YBI Transition Structures Advance Foundations

CCO	Method of Payment	Description	HQ Status	TBPOC Status	CCO Status	Current Estimate/ Actual Cost	Change from June 09 Approved Budget
64	FA	YBITS W3L Site Prep and Grading and Construct Access Road	N/A	N/A	Executed 1/8/07	\$150,000	
64S1	LS/FA	YBITS W3L Foundation and Column to Splice Zone, Integrated Shop Drawings for W3L, Concrete Washouts, 50% of Flagging, and Traffic Controls	I&A 3/13/07	Approved 2/15/07	Executed 4/4/07	\$5,835,000	
65	FA	Demo Exist Bridge Adv. Planning	N/A	Approved 4/14/08	Executed 4/18/08	\$175,000	
65S1	LS	Demolish Exist Bridge (Bent 48 to YB-4)	I&A 4/06/09	Approved 5/7/09	Executed 5/21/09	\$9,227,660	(\$88,460)
192	LS	Cable Bracing requires for Demolition of Spans YB-1, YB-2, and YB-3	N/A	N/A	Executed 8/13/09	\$111,540	
70	FA	Integrated Shop Drawings for Remaining YBITS	I&A 4/04/07	N/A	Executed	\$500,000	

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		Advance Locations (W3R, W4L/R, W5L/R, W6L/R, W7L/R, and W7 Ramp)			5/1/07		
70S1	FA	YBITS Advance – ISD 3R, 4R/L, 5R/L, 6R/L, 7R/L & ramp	I&A 1/17/08	N/A	Executed 1/30/08	\$450,000	
73	LS	YBITS W3R, W4R, W5R/L, W6R/L, and W7 Ramp Foundations and Columns	I&A 10/24/07	Approved 10/30/07	Executed 11/19/07	\$62,958,990	
75	LS	YBITS W7R/L Foundations and Columns	I&A 4/2/08	Approved 4/3/08	Executed 4/14/08	\$13,125,000	(\$839,190)
75S1	LS	Bent W7 Structure Backfill	I&A 7/7/09	Approved 7/15/09	Executed 7/31/09	\$910,810	
77	LS	YBITS W4L Foundations and Columns	I&A 6/13/07	Approved 7/27/07	Executed 7/20/07	\$7,125,000	
78	FA	Relocation of Sewer Force Main	N/A	N/A	Executed 7/17/07	\$125,057	
94	LS	YBITS Temp. EB Onramp Abutment Piles and Shoring	I&A 5/18/09	N/A	Executed 5/21/09	\$153,593	(\$246,407)
118	FA	Vibration & Elev. Monitoring at W5L	N/A	N/A	Executed 2/20/08	\$50,000	
118S1	FA/LS/ID	Nimitz House vibration monitoring	N/A	N/A	Executed 8/05/08	\$50,050	
120	LS/Credit	CIDH Pile Mitigation Deduct	N/A	N/A	Executed 3/17/08	(\$400)	
124	FA/LS	Seismic Monitoring & Column Grounding	I&A 10/16/08	N/A	Executed 11/25/08	\$353,975	
126	FA	YBITS Excavation / Hazmat Disposal	I&A 4/7/08	Approved 4/3/08	Executed 4/17/08	\$500,000	
145		Revised Mass Concrete Spec. (Elimination of requirement from CCO's 73 & 75)	7/22/09	N/A	Executed 8/25/09	\$0	
145S1		Credit for eliminated Mass Concrete Work		TBD	In Progress	(\$500,000)	
147	LS	Add Cost W4R Foundation Construction	N/A	N/A	Executed 7/21/08	\$25,024	
155	FA	Excess Soil Offhaul	I&A 8/13/08	N/A	Executed 9/03/08	\$500,000	
159	LS	Redesign Bent W7 Soil Nail Wall	I&A 11/10/08	N/A	Executed 5/21/09	\$916,280	
165	LS	W7 Soil Nail Wall Delay Costs	I&A 4/20/09	N/A	Executed 4/08/09	\$152,208	
185		HazMat Excavation for Bridge Removal	8/10/09	N/A	Executed 8/25/09	\$106,000	\$106,000
211	LS	Duct Bank Revisions	N/A	N/A	Executed 8/13/09	\$129,152	(\$20,848)
211S1		Duct Bank Air Line Base Rock	N/A	N/A	In Progress	\$50,000	
Current Status for YBI Transition Structures Advance Foundations						\$103,179,939	(\$1,088,905)

Budget Status

The Department's December 25, 2006 Strategy Memorandum estimated the cost to construct Bents W3R/L, W4R/L, W5R/L, W6R/L, W7R/L, and W7 Ramp to be \$107M. In addition, the temporary E.B. onramp abutment was added at a later date with no estimate revision. The Departments December 14, 2006 Strategy Memorandum estimated the additional demolition costs for the existing bridge (Bent 48 through YB-4) to be \$3.5M. The combined estimate for both was \$110.5M. The June 2009 revised additional cost estimate is \$104.3M with a current projection of \$103.2M. Total CCOs executed to date are \$103.6M.

Administrative Issues General CCOs

5

Progress of Work

Administrative issues that remain on the YBID contract are related to setting project milestones and determining time related overhead resulting from the contract time extensions, escalation costs, the increased scope of work, and other necessary changes to the contract. Additionally, costs for implementing COZEED for the East and West Tie-Ins need to be accounted for.

The following list of target milestones has been incorporated into the project schedule. This information will be revised as more detailed schedule information is developed.

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	Date	Status	Notes
W3L (foundation and column up to splice zone)	March 15 th , 2007	Complete	Finished 3/15/07
West Tie-In Phase 1 Viaduct Demo/Roll-In Complete	September 4 th , 2007	Complete	Finished 9/04/07
Access to W3R Available to CCM	January 2 nd , 2008	Partial access provided	Coordinating access with SAS
Upper East Tie-In Area Available to CCM (Revised October 2008)	December 2009	Partial access provided	Coordinating access with SAS
East Tie-In Roll-Out/Roll-In Complete (Revised October 2008)	September 7 th , 2009	Complete	Finished 9/8/09
Project Completion (Revised July 2009)	December 10, 2010		

The Department has extended TRO compensation at the original contract rate through September 1, 2009. The Contractor has completed a TRO audit. The Department is reviewing this information so that an appropriate TRO adjustment can be negotiated.

The Department continues to pursue a resolution to the remaining NOPC issues. Of the 18 NOPC issues, only three remain outstanding. Of the three it is anticipated that Viaduct CCO #128 will resolve NOPC #6, resolution of the existing structure demolition costs will resolve NOPC #15, and resolution of the TRO costs will resolve NOPC #18.

Status of Contract Change Orders: Administrative Issues

CCO	Method of Payment	Description	HQ Status	TBPOC Status	CCO Status	Current Estimate/ Actual Cost	Change from June 09 Approved Budget
1 S2	FA	Flagging & Traffic Control	N/A	N/A	Executed 12/5/07	\$200,000	
1S3	FA	Flagging & Traffic Control	N/A	N/A	Executed 7/2/08	\$300,000	
1S4	FA/LS	Flagging & Traffic Control	N/A	N/A	Executed 7/9/09	(\$57,580)	(\$57,580)
13S1	FA	PMIV Additional Funds	I&A 3/10/08	N/A	Executed 3/17/08	\$300,000	
39S1	FA	Additional Funds for Shuttle Service to USCG	I&A 3/18/09	N/A	Executed 3/30/2009	\$500,000	
45 S1	LS	Additional SWPPP	I&A 12/14/07	N/A	Executed 1/31/08	\$350,000	
51	LS	NOPC 12 & 13 Resolution	N/A	N/A	Executed 8/17/06	\$25,234	
52	0	Elimination of Contractor's Design of Tie-Ins	I&A 1/19/07	N/A	Executed 3/2/07	\$0	
53	FA	Handling and Storage of Material	I&A 11/06/06	N/A	Executed 12/8/06	\$240,000	
56	LS	Contractor's Design additional cost... Resolved NOPCs 2,3,4,8,9,10,11,14, and 16	I&A 2/20/08	Approved 3/5/08	Executed 3/17/08	\$6,837,310	
57	LS	Demolition of Building 206	N/A	N/A	Executed 10/18/06	\$22,378	
57S1	LS	Remove and Clear Building 254	N/A	N/A	Executed 6/4/07	\$10,572	
66S1	FA	Video/Photo Documentation Services Supplemental Funds	N/A	N/A	Executed 4/14/08	\$200,000	
66S2	FA	Video/Photo Documentation Services Supplemental Funds		N/A	In Progress	\$200,000	
86	LS	Additional Suspension Costs	N/A	N/A	Executed 5/19/08	\$42,764	
91	LS	Contract Days Extension/TRO Compensation to November 08	RPP 8/28/07	TBD	Executed 10/31/07	\$1,818,948	
91 S1	LS	Base Contract TRO Extension to September 1, 2009	I&A 10/25/07	Approved 10/30/07	Executed 11/16/07	\$8,463,159	
91 S2	LS	Base Contract TRO Extension to December 10, 2010		Approved 7/15/09	In Progress	\$5,494,737	
114		Global TRO Adjustment and TRO Audit		TBD	In Progress	\$6,505,263	
96	FA	SWPPP Steep Slope Stabilization Measures	N/A	N/A	Executed 1/4/08	\$190,000	
96S1	FA	Add Funds Shotcrete Slope at Bent 48	N/A	N/A	Executed 7/2/08	\$40,000	

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109	FA	MEP Coordination	N/A	N/A	Executed 1/30/08	\$100,000	
110	FA	Geotech. Exploration Pads and Support	N/A	N/A	Executed 2/20/08	\$150,000	
119	FA/LS/ID/ UP	Project Wide SWPPP	I&A 4/07/08	N/A	Executed 4/17/08	\$638,939	
123	FA	Treasure Island Yard Lot Rental	I&A 4/16/08	N/A	Executed 4/17/08	\$600,000	
125	FA	Project Access Paving	N/A	N/A	Executed 4/04/08	\$150,000	
125S1	FA	Additional Funds, Project Access Paving	I&A 6/12//08	N/A	Executed 6/25/08	\$35,000	
130	LS	Project Retention	I&A 4/07/08	N/A	Executed 4/14/08	\$136,510	
131	FA	Delete Permanent Erosion Control Items	N/A	N/A	Executed 5/6/09	(\$74,502)	
132	LS	Storm Damage Slope Repair (Resolved NOPC 17)	N/A	N/A	Executed 5/23/08	\$23,870	
139		Revised ESA's	N/A	N/A	Executed 5/23/08	\$0	
142	FA	Macalla Road Sinkhole Repair	N/A	N/A	Executed 7/18/08	\$150,000	
146	FA	Macalla Road Tree Trimming	N/A	N/A	Executed 7/21/08	\$50,000	
146S1	FA	Add Funds Macalla Road Tree Trimming	N/A	N/A	Executed 11/25/08	\$50,000	
151		Public Safety Spec Change (Suspended Load)	N/A	N/A	Executed 9/23/08	\$0	
157		USCG Access Mitigation Stairway Design to Quarters Above		N/A	Executed 1/28/09	\$150,000	
176	FA	Construction Staking	N/A	N/A	Executed 4/08/09	\$100,000	
		Non CCO Charges...COZEPP, lead survey, respirator training			In Progress	\$1,323,000	
182		USCG use parking lots at WTI area Quarters 8		TBD	In Progress	\$300,000	
188		Sound Control Requirements, pile driving restrictions (Specification Only)	6/23/09	N/A	Executed 8/25/09	\$100,000	
188S1		Sound Control Impacts to W6 & W7 Pile Driving		TBD	In Progress		
195	FA	USCG Stair Access to Quarters 9 along Goat Slope	7/31/09	N/A	Executed 8/25/09	\$500,000	(\$300,000)
203		SSD Base Camera's		TBD	In Progress	\$700,000	
208		Permanent Gawk Screen on North Side Detour Rail – CCO Deleted				\$0	(\$200,000)
		PIO Office Labor Day Outreach		N/A	In Progress	\$200,000	
		Macalla Road Repairs		N/A	In Progress	\$200,000	
Current Status for Administrative and General CCOs						\$37,265,602	(\$557,580)

Budget Status

As of June 2009 the revised additional cost estimate for Time Related Overhead, escalation issues, and job wide changes is \$37.8M with the largest estimated cost being attributed to a global TRO adjustment. As Contract Change Orders for these items are negotiated, this estimate will be updated. Costs related to settlement of NOPC issues not captured here will be paid out of the contract contingency.

Additionally, the original contract allotment provided \$1.3M for COZEPP. Subsequently, there were \$23,000 in other charges for a lead survey and respirator training both related to the WTI Phase 1 demolition work, providing for total non-CCO related charges of \$1.323M to the contract. These costs are shown here to capture costs to the project. It is also important to note that with two full bridge closures planned additional COZEPP funds may be required.

Total CCOs executed to date are \$22.2M.

Memorandum

TO: Toll Bridge Program Oversight Committee (TBPOC) **DATE:** September 16, 2008

FR: Program Management Team (PMT)

RE: Agenda No. - 3a

Item- Self-Anchored Suspension Superstructure
TBPOC China / Canada Visit Update

Recommendation:

For Information Only

Cost:

N/A

Schedule Impacts:

N/A

Discussion:

There will be an update on the TBPOC visits to China and Canada at the September 18 conference call.

Attachment(s):

N/A